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1   Technical correspondence: Analysis and detection of computer viruses and worms: ▬
    an annotated bibliography
    Prabhat K. Singh, Arun Lakhotia
    February 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 2
    Publisher: ACM Press
    Full text available: 🗎 pdf(667.42 KB)   Additional Information: full citation, abstract

    This annotated bibliography reviews research in analyzing and detecting computer viruses
    and worms. This document focuses on papers that give information about techniques and
    systems detecting malicious code.

2   A software authentication system for the prevention of computer viruses   ▭
    Lein Harn, Hung-Yu Lin, Shoubao Yang
    April 1992 **Proceedings of the 1992 ACM annual conference on Communications CSC
            '92**
    Publisher: ACM Press
    Full text available: 🗎 pdf(387.97 KB)   Additional Information: full citation, abstract, references, index terms

    In the absence of systematic techniques to detect the existence of computer viruses,
    preventing suspicious software from entering the system at the initial point of entry
    appears to be the best method to protect computing resources against attacks of
    computer viruses. Currently, software is distributed primarily by diskettes instead of
    online transmission. Diskettes are more susceptible to modification and masquerading
    while on-line transmission usually follows proper user/message authentic ...

3   Session 3: discussion: Ontology in information security: a useful theoretical   ▭
    foundation and methodological tool
    Victor Raskin, Christian F. Hempelmann, Katrina E. Triezenberg, Sergei Nirenburg
    September 2001 **Proceedings of the 2001 workshop on New security paradigms NSPW
            '01**
    Publisher: ACM Press
    Full text available: 🗎 pdf(507.99 KB)   · Additional Information: full citation, abstract, references, citings, index
                                                                                terms

    The paper introduces and advocates an ontological semantic approach to information
    security. Both the approach and its resources, the ontology and lexicons, are borrowed

from the field of natural language processing and adjusted to the needs of the new domain. The approach pursues the ultimate dual goals of inclusion of natural language data sources as an integral part of the overall data sources in information security applications, and formal specification of the information security community ...

Keywords: documentation, human factors, languages, security, standardization, theory

4 Computer virus-antivirus coevolution

Carey Nachenberg

January 1997 **Communications of the ACM**, Volume 40 Issue 1

Publisher: ACM Press

Full text available: pdf(317.53 KB)   Additional Information: full citation, citings, index terms, review

5 Computer security: Neutralizing windows-based malicious mobile code

James A. Whittaker, Andres De Vivanco

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available: pdf(840.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile code---executable programs that get copied from computer-to-computer via e-mail, web browsers, etc.---is a popular way to stage malicious attacks against users. The Windows operating system is often the target of such attacks, in part because of its ubiquity and in part because of the vast functionality it provides. Some of this functionality, like executable e-mail attachments and scripting, provides opportunity for mobile code to cause significant damage to a host system. One obv ...

Keywords: API hooking, code signing, interrupt table, mobile code, native code, sandbox, virus, windows, worm, wrapper

6 There is no such thing as free support

Dianne Brotherson

October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future SIGUCCS '00**

Publisher: ACM Press

Full text available: pdf(138.50 KB)   Additional Information: full citation, index terms

Keywords: charge-back, computer support, help center, support costs

7 String barcoding: uncovering optimal virus signatures

Sam Rash, Dan Gusfield

April 2002 **Proceedings of the sixth annual international conference on Computational biology RECOMB '02**

Publisher: ACM Press

Full text available: pdf(3.98 MB)   Additional Information: full citation, abstract, references, citings, index terms

There are many critical situations when one needs to rapidly identify an unidentified pathogen from among a given set of previously sequenced pathogens. DNA or RNA hybridization chips can be designed for such identifications. Each cell in the chip can

report the presence or absence of a specific substring of DNA in the unidentified pathogen. Properly designed, the collection of reports obtained from the cells can uniquely identify any pathogen in the set, or determine that the unidentified patho ...

Keywords: barcoding, string barcoding, suffix trees, testing set, virus signatures

8 Peer to peer networks: A reputation-based approach for choosing reliable resources in peer-to-peer networks
Ernesto Damiani, De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati, Fabio Violante
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**
Publisher: ACM Press

Full text available: pdf(650.19 KB) Additional Information: full citation, abstract, references, citings, index terms

Peer-to-peer (P2P) applications have seen an enormous success, and recently introduced P2P services have reached tens of millions of users. A feature that significantly contributes to the success of many P2P applications is user anonymity. However, anonymity opens the door to possible misuses and abuses, exploiting the P2P network as a way to spread tampered with resources, including Trojan Horses, viruses, and spam. To address this problem we propose a self-regulating system where the P2P netwo ...

Keywords: peer-to-peer network, polling protocol, reputation-based systems

9 WebALPS: a survey of E-commerce privacy and security applications
S. W. Smith
June 2001 **ACM SIGecom Exchanges**, Volume 2 Issue 3
Publisher: ACM Press

Full text available: pdf(135.26 KB) Additional Information: full citation, abstract, references, citings, index terms

Web-based commerce is rife with scenarios where a party needs to trust properties of computation and data storage occurring at a remote machine, operated by a different party with different interests. In our WebALPS project, we have used off-the-shelf hardware and open source software to build *trusted co-servers* co-resident with Web servers, and bring the secure SSL channel all the way into these trusted co-servers. In this paper, we survey how this tool can be used to systematically addr ...

10 Securing information transmission by redundancy
Jun Li, Peter Reiher, Gerald Popek
September 1999 **Proceedings of the 1999 workshop on New security paradigms NSPW '99**
Publisher: ACM Press
Full text available: pdf(582.78 KB) Additional Information: full citation, references, index terms

11 Building an e-mail virus detection system for your network
Dave Jones
December 2001 **Linux Journal**, Volume 2001 Issue 92
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(22.15 KB) Additional Information: full citation, abstract, index terms

Jones gives a great example of a homegrown virus protection system.

12 Computer immunology

Stephanie Forrest, Steven A. Hofmeyr, Anil Somayaji

October 1997 **Communications of the ACM**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(460.66 KB)   Additional Information: full citation, references, citings, index terms

13 Helping Macintosh refugees into a Windows world

Tommy Roberson, Rob Branham

November 1999 **Proceedings of the 27th annual ACM SIGUCCS conference on User services: Mile high expectations SIGUCCS '99**

Publisher: ACM Press

Full text available: pdf(65.35 KB)   Additional Information: full citation, references, index terms

Keywords: Labs, Macintosh, Windows, micro-computer support

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